

Cannon Technologies' Cocooning Chimney takes the heat out of the situation

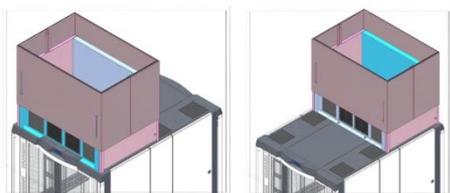


Cannon Technologies, the international leader in innovative containment systems, has announced the introduction of its latest product designed to optimise data centre climate conditions – the Cocooning Chimney. Available in passive and active variants, Cocooning Chimneys are perfect as part of a free air cooling system, which uses ambient air to remove the heat from a data centre.

Free air cooling delivers energy efficient and cost effective data centres, however, one of the key challenges is providing the correct balance between cold aisle temperature, IT equipment fan speed and hot air return temperature. Cocooning via a vertical chimney ensures hot exhaust air from one rack, a row of racks or a complete aisle, is ducted to the ceiling hot air return plenum without affecting aisle temperatures.

CANNON 3D DRAWINGS

TELESCOPIC CHIMNEY
COMPLETE WITH CHOICE OF CABLE WAYS (FRONT & REAR)



Cannon Technologies' managing director, Matthew Goulding, explains, 'A passive system uses the server / IT and air handler fans to provide air movement through the Cocooning Chimney. This creates a sealed environment for the air to travel through, ensuring that cool air

does not mix with heated exhaust air. Alternatively, an active system involves the use of fan trays to provide forced airflow up through the chimney. Cannon Technologies' automatic, variable speed temperature controlled fan trays boast an adjustable telescopic design for indeterminate installation heights or single piece construction.'

Cannon Technologies has used its vast experience in chimney design and configuration within the Cocooning Chimneys, and to eliminate the common problems associated with free cooling – polluted air, pollen, insects and humidity – it has designed them to be used alongside airside economisers. Perfect for retrofitting, they bring ambient air in, filter it and then mix it with exhaust air to raise the temperature if required. The air is then passed either through an air-to-air heat exchanger, or direct and through a back-up water or DX air coil, in order to get the right temperature for the room.

To assess their effectiveness, Intel looked at the impact of airside economisers where the outside air temperature was 90°F (32°C). It estimated that a 10MW facility would save almost \$3m per year and that the risk of increased equipment failure was so low as to be insignificant.

As well as offering brush sealed cable containment solutions that pass through the Cocooning Chimneys and out to cable raceways and basket, Cannon Technologies can also provide aisle roof designs and custom chimneys to suit various ductwork requirements. This is backed up with a service that includes site surveys, bespoke system design, heat extraction calculation, fast and efficient manufacture, installation and testing.

‘The popularity of free air cooling is not surprising given that it can help deliver a power usage effectiveness (PUE) rating as low as 1.05, against an industry average of 2.0,’ concluded Matthew Goulding. ‘Our pioneering new Cocooning Chimneys can play a vital role in reducing the cost of cooling, making data centres more energy efficient and getting the most out of ambient temperatures.’

For more information visit: http://www.cannontech.co.uk/Cocooning_Chimney.html

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ABOUT CANNON TECHNOLOGIES

With a 36 year pedigree, Cannon Technologies provides T4 Data Centre Solutions around the globe - from building complete data centres as turnkey projects up to TIA 942 Tier 4; to suites of intelligent, environmentally managed infrastructure racks, including cold-aisle cocooning, per-rack access control, video surveillance, intelligent power distribution and UPS. At top turnkey level Cannon designs, supplies, integrates and commissions the IT architecture for military and commercial applications, for mission critical projects.

For more information please visit www.cannontech.co.uk

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